

## **AMENDMENTS TO THE CLAIMS**

The following listing of claims will replace all prior versions and listings of claims in the application.

### **LISTING OF CLAIMS**

1. (Currently Amended) A monolithic resurfacing implant comprising:  
a head having:  
a hemispherical exterior articulating surface defining a terminating rim;  
a concave interior surface opposite said exterior articulating surface;  
an integral straight anchoring device having a textured outer surface configured to be directly coupled to bone, said anchoring device extending from said interior surface and being integral with the interior surface; and  
an extended articulating surface protruding from only a portion of the terminating rim of said hemispherical exterior articulating surface operable to articulate with at least one of a bone and a ligament, said extended articulating surface having a pair of interior intersecting flat planar surfaces, said flat planar surfaces being generally parallel to the integral straight anchoring device.
2. (Previously Presented) The implant of Claim 1, wherein said extended articulating surface articulates with at least one element of a coracoacromial arch.

3. (Original) The implant of Claim 1, wherein said implant is comprised of at least one of cobalt chrome, titanium, and a biocompatible material.

4. (Cancelled)

5. (Original) The implant of Claim 1, wherein said anchoring device is a short stem having flutes.

6. (Original) The implant of Claim 1, wherein said anchoring device includes a first end proximate to said head and a second end distal to said head, said second end having a diameter that is smaller than said first end.

7. (Original) The implant of Claim 1, wherein said anchoring device includes a blasted finish.

8. (Original) The implant of Claim 1, wherein said extended articulating surface includes an outer surface that is substantially flush with said exterior articulating surface.

9. (Original) The implant of Claim 8, wherein said extended articulating surface includes a step.

10. (Original) The implant of Claim 8, wherein said extended articulating surface is located in a lateral region of said head when implanted in a patient.

11. (Previously Presented) The implant of Claim 8, wherein said pair of planar surfaces define a planar "V" shaped inner surface defined only on the extended articulating surface.

12. (Cancelled)

13. (Currently Amended) A monolithic humeral head resurfacing implant comprising:

a humeral head having a hemispherical articulating surface and a concave coupling surface, said hemispherical articulating terminating generally at a hemispherical equator;

an integral engagement stem configured to be directly coupled to bone, said stem extending from said head, said stem being integral with the concave coupling surface; and

a flange extended surface protruding from only a portion of said hemispherical equator of said hemispherical articulating surface operable to articulate with at least one element of a coracoacromial arch, said flange having at least two flat planar inner surfaces generally parallel to the integral engagement stem configured to prevent rotation of the head about an axis defining the hemispherical articulating surface.

14. (Original) The implant of Claim 13, wherein said engagement stem further comprises flutes.

15. (Original) The implant of Claim 13, wherein said engagement stem is tapered.

16. (Cancelled)

17. (Original) The implant of Claim 13, wherein said extended surface is positioned at a lateral region of the implant when implanted in a patient.

18. (Cancelled)

19. (Currently Amended) A method for resurfacing a humeral head of an implant site, the method comprising:

resurfacing the humeral head so as to remove a portion of the humeral head leaving a resurfaced surface;

boring a hole into the humeral head;

resecting a portion of the humeral head so as to form a pair of intersecting flat planar surfaces, said surfaces being generally parallel to the hole;

positioning a resurfacing humeral head implant, after resecting a portion of the humeral head, said implant having an articulating surface which terminates at a hemispherical equator and an extended articulating surface protruding from only a

portion of the hemispherical equator of said resurfacing head on the resurfaced surface of the humeral head, said resurfacing head having an interior surface having a pair of interior surfaces being complementary with the pair of intersecting interior surfaces;  
aligning the pair of interior surfaces with the pair of intersecting surfaces; and  
positioning the extended articulating surface of the resurfacing humeral head implant in a lateral region of the humeral head so as to articulate with at least one of a bone and a ligament and interface with the planar surfaces.

20. (Original) The method of Claim 19, wherein said resurfacing step comprises resecting a portion of the humeral head to receive the extended articulating surface.

21. (Original) The method of Claim 20, wherein said resurfacing step comprises resecting a portion of the humeral head to form a step region operable to receive the extended articulating surface.

22. (Original) The method of Claim 20, wherein said resurfacing step comprises resecting a portion of the humeral head to form a “V” shaped surface operable to receive the extended articulating surface.

23. (Cancelled)

24. (Previously Presented) The method of Claim 19, wherein resurfacing the humeral head comprises forming a hole only within the humeral head, the hole operable to receive a short stem of the implant.

25. (Cancelled)

26. (Currently Amended) The implant according to Claim 1, wherein the hemispherical exterior articulating surface defines a peripheral base surface, and wherein the extended articulating surface defines an upper surface between the pair of planar inner surfaces and the concave interior surface, said upper surface being generally parallel to the base surface.

27. (Currently Amended) The implant according to Claim 13, wherein the flange exterior surface defines a peripheral base surface, and wherein the flange extended surface defines a planar upper surface between the pair of planar inner surfaces and a concave interior surface, said upper surface being generally parallel to the base surface.